

Title (en)  
Hydraulic cylinder actuator.

Title (de)  
Hydraulischer Betätigungszylinder.

Title (fr)  
Actionneur pour cylindre hydraulique.

Publication  
**EP 0269091 A2 19880601 (EN)**

Application  
**EP 87117409 A 19871125**

Priority  
JP 18296586 U 19861128

Abstract (en)  
This invention relates to an improved hydraulic actuator such as those used to reciprocate the valve pin in an injection molding system. A small diameter hole (18) is provided through the piston (13). This allows a limited flow of hydraulic fluid from one side of the cylinder (12) to the other, but yet enables the piston to control the valve pin or other mechanism in the manner necessary. This small flow of hydraulic fluid provides for the escape of trapped air, relieves stagnation and excessive temperature build up in the fluid, and avoids the accumulation of sediment and corrosion.

IPC 1-7  
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IPC 8 full level  
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**B29C 45/281** (2013.01 - EP); **F15B 15/1447** (2013.01 - EP); **F15B 15/1485** (2013.01 - EP US); **F15B 15/149** (2013.01 - EP); **F15B 21/0423** (2018.12 - EP US); **F15B 21/044** (2013.01 - EP)

Cited by  
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